SEQUENCE PROTOCOL

(1)	GENERAL	INDICATIONS:
-----	---------	--------------

- (i) APPLICANT:
 - (A) NAME: Deutsches Krebsforschungszentrum
 - (B) STREET: Im Neuenheimer Feld 280
 - (C) TOWN: Heidelberg
 - (E) COUNTRY: Germany
 - (F) POSTAL CODE: 69120
- (ii) TITLE OF THE INVENTION: Method for Triggering Apoptosis in Cells
- (iii) NUMBER OF SEQUENCES: 10
- (iv) COMPUTER-READABLE VERSION:
 - (A) DATA CARRIER: floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SORTWARE: PatentIn Release #1.0, version #1.30 (EPO)
- (v) DATA OF THE CURRENT APPLICATION: not yet known
- (vi) DATA OF THE PRIOR APPLICATION:
 APPLICATION NUMBER: DE 198 24 811.3
 FILING DATE: June 3, 1998
- (2) INDICATIONS AS TO ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1156 base pairs
 - (B) KIND: nucleotide
 - (C) STRAND FORM: single strand
 - (D) TOPOLOGY: linear
 - (ii) KIND OF MOLECULE: cDNA
 - (iii) HYPTHETICAL: no
 - (iv) ANTISENSE: no
 - (ix) CHARACTERISTIC:
 - (A) NAME/KEY: CDS
 - (B) POSITION: 118..540
 - (ix) CHARACTERISTIC:
 - (A) NAME/KEY: mat_peptide
 - (B) Position: 118..540
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CTTTCCGGGA C	GACTGGAGTC (GAAGGCCGT	G AGTATTTT	CT AAGCCAGTGT	TTAGAGAGTA	60
TGTGAGGCAA G	SAGTACCTAT A	AGAACCCGG	A GGAGGGTG	AG GAGCAGAGCT	GGCCATA	117
				CA GTA GAA AT co Val Glu Il		165
				CT GTG GAT GA la Val Asp Gl 3		213
			Asn Glu Le	rg TTG CAG AA eu Leu Gln Ly 45		261
				CT GCA TAC AC er Ala Tyr Th 60		309
		Leu Ala	Thr Gln G	GA GTT AAT CC Ly Val Asn Pr 75		357
				GA GTA TAT AT g Val Tyr Me		405
Val Lys Glu				GC AAG CTG GA Ly Lys Leu As 11	p Arg Gly	453
				GG GAA CCA AA p Glu Pro Ly 125		501
AAT GCA TCA Asn Ala Ser 130				GT AAA AGT TA er Lys Ser 140	ACTTTTTG	550
GTTTTGATGT A	CACATATTC A	AAAAGTAC	A TTAATATG	TA ATCACAGTAA	TATGTAAAGC	610
TAAATACTTC C	TCTCCAAAG A	TCATTATC	T TTATTGAT	TA GCACTGAGGA	TTTTAACATT	670
GTGATATATT A	TATTTATAT.	ATTTACCA	T CTCTTGAT	GA GACTCTTATT	TCTTTATATA	730
GGTCAGTCTT G	CAAGTACCA 1	TTTATAAG	C AGCTGTGA	A TTTAAGTGAA	ATGTTCTTTG	790
TAAACATTTG T	ACTATTTTA A	ATGAATAA	T GACCTTATO	GA AGTATGCTAT	CTGTAGGCTG	850
AAATTATAGG T	ACATCTGTT 1	TCACTATA	T GATATTAA	GA AAGCGTGAAT	GACTTAAATG	910
TTCATTTTTT T	CTGTATAGA	ACTTTATC.	A TGTTTTCA	G ATTTTAGGAA	TTACTGCTTT	970

ï

GTTGATATTC	AAAGTGTGAA	ACTAAAAGTT	TATGGTTGTA	CTTTAATTCT	TGGCATGTTG	1030
CCTCTATGTC	CCATTTAAAA	ТААААТАСАТ	TCTCATTAAC	TTTAGATGGG	AAATAAGGTT	1090
GTATGTTGAT	GGATGAATTT	TGGCATGATG	ACTGTACTCT	CAATAAAGGC	TGAAAATGTT	1150
GTAAAA						1156

(2) INDICATIONS AS TO ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 141 amino acids
 - (B) KIND: amino acid
 - (D) TOPOLOGY: linear
- (ii) KIND OF MOLECULE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2
- Met Ala Gly Glu Glu Ile Asn Glu Asp Tyr Pro Val Glu Ile His Glu
 1 5 10 15
- Tyr Leu Ser Ala Phe Glu Asn Ser Ile Gly Ala Val Asp Glu Met Leu 20 25 30
- Lys Thr Met Met Ser Val Ser Arg Asn Glu Leu Leu Gln Lys Leu Asp 35 40 45
- Pro Leu Glu Gln Ala Lys Val Asp Leu Val Ser Ala Tyr Thr Leu Asn 50 55 60
- Ser Met Phe Trp Val Tyr Leu Ala Thr Gln Gly Val Asn Pro Lys Glu 65 70 75 80
- His Pro Val Lys Gln Glu Leu Glu Arg Ile Arg Val Tyr Met Asn Arg 85 90 95
- Val Lys Glu Ile Thr Asp Lys Lys Lys Ala Gly Lys Leu Asp Arg Gly
 100 105 110
- Ala Ala Ser Arg Phe Val Lys Asn Ala Leu Trp Glu Pro Lys Ser Lys 115 120 125
- Asn Ala Ser Lys Val Ala Asn Lys Gly Lys Ser Lys Ser 130 135 140

(2) INDICATIONS AS TO ID NO: 3:

. . . .

; *''*

(i)	SEQUE (A) (B) (C) (D)	LENG KINI STR	GTH: D: no	RACTI 104 ucle FORM Y: 1	0 bà otid : si	se p e ngle	airs							·	
(ii̇́)	KIND	OF M	OLEC	CULE:	: cDi	NΑ									
(iii) НҮРТ	неті	CAL:	no											
(iv)	ANTIS	SENSE	: nc)											
(ix)	CHARA	CTER	TSTT	C:											
(11)	(A)			Y: C	DS										
	(B)	POS	ITIO	N: 7	85	00									
(ix)						-			-						
	(A) (B)						de								
	(D)	FUS.	LCIO	. ,	05	00									
(xi)	SEQUE	ENCE	DESC	CRIPT	CION	SEQ	ID	NO:	3:						
CAGAA	GCCGT	GTCA'	rggc	GT C	ATCA'	rcgr	G CG	ACCT	ATTT	CCC	GGAG	ACA (GGCG	rccacg	60
GTATT	GAGTT (GGTC											TAT (Tyr 1		110
	AA ATT lu Ile														158
	AC GAC sp Asp 30	Met													206
Leu G	AG AAG ln Lys 45														254
GCA TA Ala Ta 60	AC ACC yr Thr	TTA Leu	AAT Asn	TCA Ser 65	ATG Met	TTT Phe	TGG Trp	GTT Val	TAT Tyr 70	TTG Leu	GCA Ala	ACT Thr	CAA Gln	GGA Gly 75	302
	AT CCC sn Pro														350
	AC ATG yr Met														398
AAG C'	TG GAC	AGA	GGT	GCT	GCT	TCG	AGA	TTT	GTC	AAG	AAG	GCA	CTC	TGG	446

Lys Leu Asp Arg Gly Ala Ala Ser Arg Phe Val Lys Lys Ala Leu Trp

115

GAA CCC AAA CGA AAA AGC ACA CCA AAA GTG GCT AAT AAA GGG AAA AGC 494 Glu Pro Lys Arg Lys Ser Thr Pro Lys Val Ala Asn Lys Gly Lys Ser 125 130 135 AAA CAC TAATCTTTTG GTTTTGATGT ACATGTTTTC AAAAAGTACA TCCTTTTTAA 550 Lys His 140 TCAGTTTACA ATGTAGTTAT GTGACCATGT GGTGTTTAAA TGGATTCCTT TTGGAATTCA 610 TGTATAAATT TACACATTAC ATTTGTGATA CTGAATCTTT TTTTTGCTGA GAAAGATTAA 670 GTTGTCTTTG TTGATTTTCA TATAAAGCAT CATGATGTGT TTAATATTGT AAGATATTCT 730 ATAAGCAGTT GTGAAATCCA AATGTTCTCT GTAAACATTT GTAGTGTTTG AAATGAACAA 790 TGATATTATG AAGTGTGCTA TCTGTAGACC TCGAGGTGTA AGGACATTTG TTTTCAGTAA 850 TGATGAGAAA TACAGTGACT TAAATACCCA CTCTGTTTCT GTTCAGTTAG TTCAACATGT 910 TTCGTGATTT TTTTTTTTT TTGAGTAATT CTGTCTTGAT ATTCAAAGTC AAAATTGAAA 970 CCTTAAGGCT GTACTTTAAT TCTTCATGTT CCATTTAAAA TAAAATGTTC TCATTAACTC 1030

1040

(2) INDICATIONS AS TO ID NO: 4:

TGATGGAAAA

110

4

्र

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 141 amino acids
 - (B) KIND: amino acid
 - (D) TOPOLOGY: linear
- (ii) KIND OF MOLECULE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Met Ala Gly Glu Glu Met Asn Glu Asp Tyr Pro Val Glu Ile His Glu
1 5 10 15

Ser Leu Thr Ala Leu Glu Ser Ser Leu Gly Ala Val Asp Asp Met Leu 20 25 30

Lys Thr Met Met Ala Val Ser Arg Asn Glu Leu Leu Gln Lys Leu Asp $35 \hspace{1cm} 40 \hspace{1cm} 45$

Pro Leu Glu Gln Ala Lys Val Asp Leu Val Ser Ala Tyr Thr Leu Asn 50 55 60

Ser Met Phe Trp Val Tyr Leu Ala Thr Gln Gly Val Asn Pro Lys Glu

38

His Pro Val Lys Gln Glu Leu Glu Arg Ile Arg Val Tyr Met Asn Arg 85 90 95

Val Lys Glu Ile Thr Asp Lys Lys Lys Ala Ala Lys Leu Asp Arg Gly
100 105 110

Ala Ala Ser Arg Phe Val Lys Lys Ala Leu Trp Glu Pro Lys Arg Lys 115 120 125

Ser Thr Pro Lys Val Ala Asn Lys Gly Lys Ser Lys His 130 135 140

(2) INDICATIONS AS TO ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 38 base pairs
 - (B) KIND: nucleotide
 - (C) STRAND FORM: single strand
 - (D) TOPOLOGY: linear
- (ii) KIND OF MOLECULE: other nucleic acid
 (A) DESCRIPTION: /desc = "primer"
- (iii) HYPTHETICAL: no
- (iv) ANTISENSE: no
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: GGGGTACCAT GGCAGGTGAA GAAATTAATG AAGACTAT
- (2) INDICATIONS AS TO ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 38 base pairs
 - (B) KIND: nucleotide
 - (C) STRAND FORM: single strand
 - (D) TOPOLOGY: linear
 - (ii) KIND OF MOLECULE: other nucleic acid
 (A) DESCRIPTION: /desc = "primer"
 - (iii) HYPTHETICAL: no

(iv) ANTISENSE: no

:		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 6:							
	GG	GTCGAC	TT AACTTTACT TTTTCCTTTA TTGGCAAC	38						
-	(2)	INDICATIONS AS TO ID NO: 7:								
		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) KIND: nucleotide (C) STRAND FORM: single strand (D) TOPOLOGY: linear							
		(ii)	<pre>KIND OF MOLECULE: other nucleic acid (A) DESCRIPTION: /desc = "primer"</pre>							
		(iii)	HYPTHETICAL: no							
		(iv)	ANTISENSE: no							
			SEQUENCE DESCRIPTION: SEQ ID NO: 7:							
			AT GGCAGGTGAA GAAATGAATG AAGATTAT	38						
	(2)	INDI	CATIONS AS TO ID NO: 8:							
;. = :		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) KIND: nucleotide (C) STRAND FORM: single strand (D) TOPOLOGY: linear							
		(ii)	<pre>KIND OF MOLECULE: other nucleic acid (A) DESCRIPTION: /desc = "primer"</pre>							
		(iļi) HYPTHETICAL: no							
•		(iv)	ANTISENSE: no							
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 8:							

38

GGGTCGACGT GTTTGCTTTT CCCTTTATTA GCCACTTT